



Hurricane Katrina approaching Louisiana and Mississippi Coast. August 29, 2005 0900 CDT.

Hurricane Katrina Hits Florida Then New Orleans
South Florida Gets More Than 10" of Rain. Keys Get More Than 15"

Although Hurricane Katrina would later rewrite the record books upon its Gulf Coast arrival, South Florida received first impact. Beginning as Tropical Depression #12 in the southeastern Bahamas on August 23, Katrina developed into a Category 1 hurricane and made landfall between Hallandale Beach and North Miami Beach, 10 to 20 miles north of Miami, on August 25.

Gusts over 90 miles per hour were recorded as Katrina's eye moved ashore. The southeastern portion of the eyewall proved to be a prodigious rain-maker as it raked the Florida peninsula, contributing to the heftiest rainfall totals seen on the Florida mainland during the storm. OneRain's gage-adjusted radar rainfall estimates, calibrated by gage data provided by the South Florida Water Management District, showed a swath of nearly 10 inches of rain running roughly from Perrine in the northeast to Homestead in the southwest.

Katrina weakened while over land, then re-strengthened once the eye moved over the warm gulf waters. With the strengthening storm came heavier rainfall over the lower Florida Keys, which received 15 inches of rain.

Katrina's Florida landfall paled in comparison to the eventual monster it would become. Still, South Florida suffered widespread damage, heavy rainfall, and the loss of eleven lives.💧

Logan Family Adventure
Wilma Hammers Vacation Plan

Hurricane Wilma battered the Cancun coast for 60 hours with up to 175 mph winds and torrential rainfall, registering as a Category 5, the strongest ever recorded in the Atlantic Ocean.

During this week, OneRain's Chief Operations Officer James Logan was on vacation in Mexico with his family. After five fun-filled vacation days, luxury turned to survival when a state of emergency was declared. The Logan family was sent to an evacuation shelter with nearly 2,500 other tourists for almost seven days without adequate food, running water or clean bathroom facilities. Space was limited, leading many tourists into arguments. After witnessing the near death of a baby before the Red Cross arrived, James and a group of other tourists created a makeshift community and assigned specific jobs to individuals, not only to pass the time but to prevent illness and infection.

Upon his safe return, James had difficulty sleeping but found a renewed devotion to his job. James learned firsthand that "it is so important to get information to the customers and businesses so that they know what is occurring, especially during a natural disaster."💧

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OneRain's newest employees, Earl Weiler (above) and Amber Fischer (below)



New Faces at OneRain

Sales Engineer and Executive Assistant Join Rainfall Team

OneRain has two new staff members, Earl Weiler and Amber Fischer! After spending the past couple of years doing independent consulting, Earl joined our team as a Sales Engineer. He has an extensive background in integrating network solutions used to track vehicles and, most recently, systems used to locate wireless E-911 callers. Earl began his career in the United States Marine Corps and rose to the rank of Staff Sergeant. The military opened many doors for Earl and provided him with the ability to travel, fly aboard helicopters as a Flight Engineer and begin his engineering education.

Amber joins our team as an Executive Assistant after working at Natural Resources Consulting Engineers, a civil, environmental and water resources engineering firm. When she is not at work, Amber can be found reading, playing with her dogs, or at the poker table. ♦

OneRain is Growing!

New Positions Available

We are looking for qualified candidates for the following positions:

☔ **Radar Products and Services Staff**- provides scientific analysis and support for Radar Rainfall product line, and professional/consulting services that leverage radar rainfall, gaging and data services. Participate in building next generation products. Masters degree in engineering or science and experience with atmospheric science, weather radar, algorithms, software design/development, and GIS is desired.

☔ **Integrated Systems Specialist**- assists with operating, performing and monitoring telemetry systems. Local expert on remote datalogger programming, SDX and communication hardware, software technologies and data management. Bachelors degree in computer science or technical field and programming/databases experience desired.

More information and how to apply available at www.onerain.com. ♦

The DownSpout: Contrail

Connect DIADvisor to Contrail and View your Data from Anywhere with Internet Access

Contrail provides DIADvisor collected data from anywhere with a web browser; a convenient feature that can save both time and money.

Remote access to a DIADvisor base station traditionally required purchasing and installing client versions of DIADvisor on additional computers. Still, access was limited to those specific locations.

Contrail has enabled customers to simplify their DIADvisor installations. Rainfall events can be monitored from homes or laptop computers during business trips. Contrail allows you to get the information you need from anywhere.

Displaying data through Contrail also enables the powerful alarm and notification features of Contrail, and, of course, all information stored in Contrail is secure and password protected. ♦

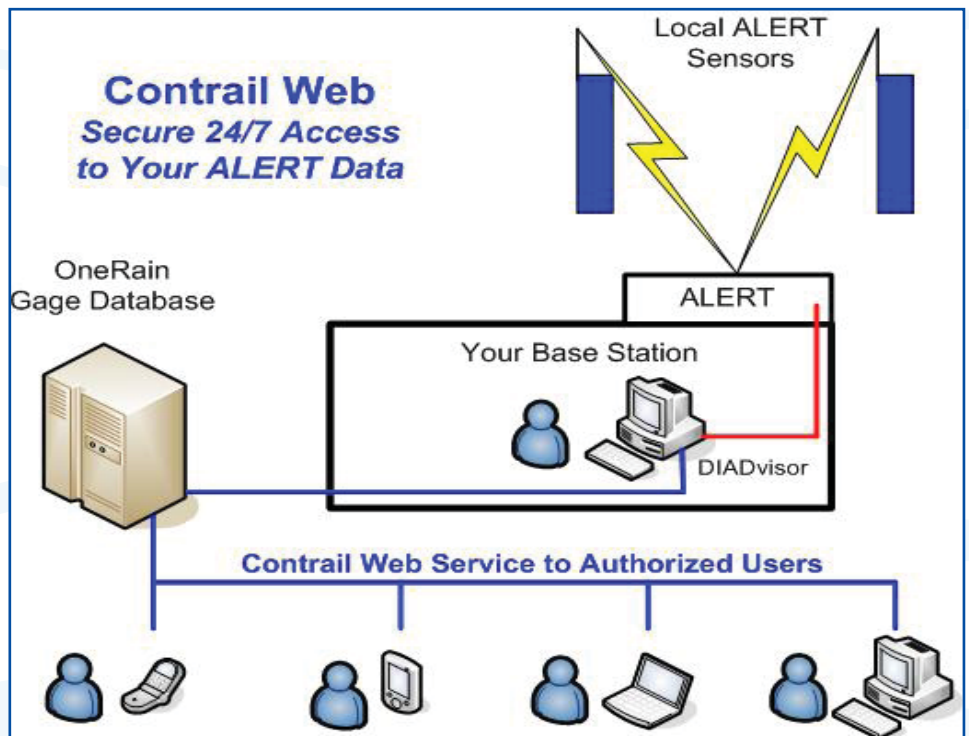


Diagram showing access to DIADvisor via Contrail.

Radarrainfall Workshop

Florida Users Share New Ideas

On November 15, 2005, OneRain hosted the first Florida Radarrainfall Users Workshop at the University of Central Florida in Orlando, organized and moderated by OneRain's Lou Torrence.

The workshop served as a forum for the exchange of information about gage-adjusted radarrainfall data. Users got to see how others were solving similar problems. As participant Danita Humbert of St. Johns River Water Management District noted, "It was interesting to see how other Water Management Districts display their data on the web."

The one-day event hosted 66 participants from across the state of Florida, representing the Florida Water Management Districts, engineering firms, county governments, and the U.S. Army Corps of Engineers.

Ten user presentations covered issues on quality control, data management, data analysis, modeling and data display. Several presentations discussed



Participants in the 1st Florida Radarrainfall Users Conference, November 2005

using gage-adjusted radarrainfall data with ESRI's ArcHydro and how the agencies have developed tools to manage, manipulate and display the data. Other presentations covered how gage-adjusted radarrainfall is used to better understand the distribution of rainfall over time and space. Advanced applications such as design storm development using radarrainfall data were also discussed. Each presentation ended with a question and answer session. Often discussions continued through breaks and lunch. As Robb Startzman of the South Florida Water

Management District observed, "the time was well spent, the content was excellent, and the workshop served as an excellent vehicle for participants to break out into groups and share information."

"I appreciated the opportunity to share a little of what we are doing with OneRain data and I think the conference went very well, lots of interesting projects and ideas," added presenter Margit Crowell from the Southwest Florida Water Management District. "I look forward to next year's meeting!"



A little preparation during the off-season improves network performance when rain returns.

OneRain Tech Tip

Winter Maintenance Program

It is always a good idea to prepare field equipment for the cold winter weather. Maintenance that should be conducted includes:

- ☁ Cycle (charge/discharge/charge) batteries to assure good capacity, >60% of rating
- ☁ Clean, test and calibrate all seasonally removed equipment: transmitters, tipping buckets, etc.
- ☁ Review and evaluate database records for sensor "drift" trends
- ☁ Maintenance on vehicles and equipment
- ☁ Inventory and restock consumables and expected replacement parts

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